

## Eaton 305180

FRBMM-B40/1N/03-A-RT. RCD/MCB, 40A, 300mA, miniature circuit-breaker trip curve: B, 1pole+N, residual current circuit-breaker trip characteristic: A

|                                 |                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------|
|                                 |                                                                                                                        |
| <b>PRODUCT NAME</b>             | Eaton Moeller series<br>xEffect - FRBm6/M RCBO -<br>residual-current circuit<br>breaker with overcurrent<br>protection |
| <b>CATALOG NUMBER</b>           | 305180                                                                                                                 |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 75.5 mm                                                                                                                |
| <b>PRODUCT HEIGHT</b>           | 84.5 mm                                                                                                                |
| <b>PRODUCT WIDTH</b>            | 35.4 mm                                                                                                                |
| <b>PRODUCT WEIGHT</b>           | 0.21 kg                                                                                                                |
| <b>COMPLIANCES</b>              | RoHS conform                                                                                                           |
| <b>CERTIFICATIONS</b>           | EN45545-2<br>IEC 61373                                                                                                 |

|                                                     |          |
|-----------------------------------------------------|----------|
|                                                     |          |
| AMPERAGE RATING                                     | 2 A      |
| SURGE CURRENT CAPACITY                              | 0.25 kA  |
| VOLTAGE TYPE                                        | AC       |
| WIDTH IN NUMBER OF MODULAR SPACINGS                 | 2        |
| OPERATING AMBIENT TEMPERATURE - MAX                 | 40 °C    |
| OPERATING AMBIENT TEMPERATURE - MIN                 | -25 °C   |
| RATED CURRENT                                       | 40 A     |
| RATED SWITCHING CAPACITY (IEC/EN 60947-2)           | 10 kA    |
| BUILT-IN DEPTH                                      | 75.5 mm  |
| CURRENT LIMITING CLASS                              | 3        |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)  | 10 kA    |
| AMBIENT OPERATING TEMPERATURE - MAX                 | 40 °C    |
| AMBIENT OPERATING TEMPERATURE - MIN                 | -25 °C   |
| FAULT CURRENT RATING                                | 0.3 A    |
| NUMBER OF POLES (PROTECTED)                         | 1        |
| NUMBER OF POLES (TOTAL)                             | 2        |
| RATED OPERATIONAL VOLTAGE (UE) - MAX                | 240 V    |
| RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) | 10 kA    |
| MOUNTING METHOD                                     | DIN rail |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP)              | 4 kV     |
| DEGREE OF PROTECTION                                | IP20     |
| OVERVOLTAGE CATEGORY                                | III      |
| POLLUTION DEGREE                                    | 2        |
| LEAKAGE CURRENT TYPE                                | A        |
| RELEASE CHARACTERISTIC                              | B        |

|  |                                                                       |
|--|-----------------------------------------------------------------------|
|  |                                                                       |
|  | <a href="#">xEffect FR RCCB FAZ%20MCB.pdf</a>                         |
|  | <a href="#">eaton-xeffect-frbm6-rcbo-catalog-ca003015en-en-us.pdf</a> |
|  | <a href="#">eaton-xeffect-frbm6m-dimensions.jpg</a>                   |
|  | <a href="#">eaton-xeffect-frbm6m-3d-drawing-005.jpg</a>               |
|  | <a href="#">eaton-xeffect-frbm6m-wiring-diagram.jpg</a>               |
|  | <a href="#">eaton-xeffect-frbm6m-characteristic-curve.jpg</a>         |

|                                                                |                    |
|----------------------------------------------------------------|--------------------|
| <b>FREQUENCY RATING</b>                                        | 50 Hz              |
| <b>RATED INSULATION VOLTAGE (UI)</b>                           | 500 V              |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b>  | 1 mm <sup>2</sup>  |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b>  | 25 mm <sup>2</sup> |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN</b> | 1 mm <sup>2</sup>  |
| <b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b> | 25 mm <sup>2</sup> |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009)</b>        | 10 kA              |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1)</b>      | 10 kA              |
| <b>DISCONNECTION CHARACTERISTIC</b>                            | Undelayed          |

|                        |
|------------------------|
| <b>PROJECT NAME:</b>   |
| <b>PROJECT NUMBER:</b> |
| <b>PREPARED BY:</b>    |
| :                      |



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